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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/989,796 11/20/2001 ACSC 59931 (1987D) 1816 Michael Y. Zhang EXAMINER 24201 06/30/2004 7590 FULWIDER PATTON LEE & UTECHT, LLP BUI, VY Q HOWARD HUGHES CENTER PAPER NUMBER ART UNIT 6060 CENTER DRIVE **TENTH FLOOR** 3731 LOS ANGELES, CA 90045

DATE MAILED: 06/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
,		
3) Since this application is in condition for allowar closed in accordance with the practice under E  Disposition of Claims  4) Claim(s) 26 and 28-37 is/are pending in the ap 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 26 and 28-37 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or  Application Papers  9) The specification is objected to by the Examine 10) The drawing(s) filed on 20 November 2001 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents	09/989,796	ZHANG ET AL.  Art Unit
	Examiner	3731
The MAILING DATE of this communication app	Vy Q. Bui pears on the cover sheet with	
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  If the period for reply specified above is less than thirty (30) days, a reply.  If NO period for reply is specified above, the maximum statutory period.  Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status  1) Responsive to communication(s) filed on 12 A  2a) This action is FINAL.  2b) This  3) Since this application is in condition for allowards.	Y IS SET TO EXPIRE 3 MON 36(a). In no event, however, may a reply within the statutory minimum of thirty (3 will apply and will expire SIX (6) MONTH: cause the application to become ABAN g date of this communication, even if time pril 2004.	ATH(S) FROM  To be timely filed  O) days will be considered timely. So from the mailing date of this communication.  DONED (35 U.S.C. § 133).  Ply filed, may reduce any  So, prosecution as to the merits is
4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>26 and 28-37</u> is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.	
10) ☐ The drawing(s) filed on 20 November 2001 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	tre: a) $\boxtimes$ accepted or b) $\square$ odrawing(s) be held in abeyance tion is required if the drawing(s)	. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority document	s have been received. s have been received in App rity documents have been re u (PCT Rule 17.2(a)).	lication No ceived in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	T	nmary (PTO-413) Mail Date rmal Patent Application (PTO-152)

#### **DETAILED ACTION**

### Claim Objections

Claim 32 is objected to because of the following informalities: claim 32 is identical to claim 30. Appropriate correction is required.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in publicuse or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 26, 28-29 are rejected under 35 U.S.C. 102(b) as being anticipated by WANG et al. (5,556,383).

WANG (example 1 and table 1) discloses a polymeric balloon having a radial shrinkage less than 6% and a length of about 2cm. It appears that the condition for determining the shrinkage percentage in this present invention is not clearly defined in the specification.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 30-33, 36-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over WANG et al. (5,556,383).

As to claims 30-32, WANG (example 1 and table 1) discloses a polymeric balloon having substantial all structural limitation as recited in the claims, except for the axial growth is less than 6% or 10%. However, WANG discloses radial shrinkage less than 6% in a radial direction and the material of the balloon is substantially homogenous, therefore, it would be reasonable to expect the growth percentage in a same order to the radial shrinkage or less than 6% or 10%.

As to claim 33, WANG (example 1 and table 1) discloses a polymeric balloon of pebax (col. 5, lines 51) having substantial all structural limitation as recited in the claims, except for the balloon is made at least in part of a polyurethane. However, pebax and polyurethane are well-known low compliant polymeric materials suitable for manufacturing balloon in a balloon catheter. It would have been obvious to one of ordinary skill in the art at the time of the invention to have polyurethane as a material to make WANG balloon, as this configuration would guarantee a low compliant balloon with low shrinkage percentage.

As to claims 36-37, WANG (example 1 and table 1) discloses a polymeric balloon of pebax (col. 5, lines 51) having substantial all structural limitation as recited in the claims, except for the balloon thickness in the range as claimed. However, it would have been obvious to one of ordinary skill in the art at the time of the invention to make WANG balloon having a thickness in the range as recited in the claims for other applications requiring balloons with bigger sizes.

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#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vy Q. Bui whose telephone number is 703-306-3420. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, McDermott or Shaver can be reached on 703-308-0858. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

06/25/2004

**Primary Examiner** 

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